

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An electro-optical light modulation element comprising

- a substrate or a plurality of substrates,
- an electrode arrangement,
 - an element or a plurality of elements for polarisation of the light and
- a mesogenic modulation medium, wherein
- the light modulation element is operated at the temperature at which the modulation medium in the unaddressed state is in an optically isotropic phase and
- the mesogenic modulation medium comprises a chiral component, component (A), which consists of one or more chiral compounds, at least one of which has an HTP of $30\ \mu\text{m}^{-1}$ or more, and
- the mesogenic modulation medium comprises an achiral component, component (B), which consists of one or more achiral compounds,
- the ~~light~~mesogenic modulation ~~medium~~element is operated at the temperature at which the ~~light~~mesogenic modulation ~~element~~medium has a blue phase or
- the ~~mesogenic~~light modulation ~~medium~~element is operated at the temperature at which the ~~light~~mesogenic modulation ~~element~~medium is in the isotropic phase, wherein
- the relative temperature dependence (dV_{10}^*/dT) of the characteristic voltage for ~~40/70~~70% relative contrast (V_{10}) of the modulation medium is 30%/degree or less at a temperature of 2° above the characteristic temperature (T_{char}) in the range of $\pm 1^\circ$ around this temperature.

2. (Previously Presented) The electro-optical light modulation element according to Claim 1, wherein

- the electrode arrangement is able to generate an electric field having a significant component parallel to the surface of the mesogenic modulation medium.

3. (Previously Presented) The electro-optical light modulation element according to Claim 1, wherein

- the mesogenic modulation medium has a blue phase.

4.- 6. (Cancelled)

7. (Currently Amended) The electro-optical light modulation element according to Claim 1, wherein

- the relative temperature dependence (dV^*_{4070}/dT) is 23%/degree or less.

8. (Currently Amended) An electro-optical light modulation element comprising

- a substrate or a plurality of substrates,
- an electrode arrangement,
 - an element or a plurality of elements for polarisation of the light and
- a mesogenic modulation medium, wherein
- the light modulation element is operated at the temperature at which the modulation medium in the unaddressed state is in an optically isotropic phase and
- the mesogenic modulation medium comprises a chiral component, component (A), which consists of one or more chiral compounds, at least one of which has an HTP of $30 \mu\text{m}^{-1}$ or more, and
- the mesogenic modulation medium comprises an achiral component, component (B), which consists of one or more achiral compounds,
- the ~~mesogenic~~light modulation ~~medium~~element is operated at the temperature at which the ~~light~~mesogenic modulation ~~element~~medium has a blue phase or
- the ~~mesogenic~~light modulation ~~medium~~element is operated at the temperature at which the ~~light~~mesogenic modulation ~~element~~medium is in the isotropic phase and
- the characteristic voltage for ~~4070%~~ relative contrast (V_{4070}) at a temperature of 2° above the characteristic temperature (T_{char}) of the modulation medium in cells is 80 V.

9. (Previously Presented) The electro-optical light modulation element according to Claim 1, wherein

- the mesogenic modulation medium comprises a chiral component, component (A), which consists of two or more chiral compounds.

10. (Currently Amended) An electro-optical light modulation element comprising

- a substrate or a plurality of substrates,
- an electrode arrangement,

- an element or a plurality of elements for polarisation of the light and
- a mesogenic modulation medium, wherein
- the light modulation element is operated at the temperature at which the modulation medium in the unaddressed state is in an optically isotropic phase and
- the mesogenic modulation medium comprises a chiral component, component (A), which consists of two or more chiral compounds, at least one of which has an HTP of $30 \mu\text{m}^{-1}$ or more, and
- the mesogenic modulation medium comprises an achiral component, component (B), which consists of one or more achiral compounds,
- the ~~mesogenic~~light modulation ~~medium~~element is operated at the temperature at which the ~~light~~mesogenic modulation ~~element~~medium has a blue phase or
- the ~~mesogenic~~light modulation ~~medium~~element is operated at the temperature at which the ~~light~~mesogenic modulation ~~element~~medium is in the isotropic phase, and
- all the chiral compounds of component (A) have the same sign of the HTP at 20°C in the reference mixture.

11. – 12. (Cancelled)

13. (Currently Amended) An electro-optical light modulation element, wherein
- a substrate or a plurality of substrates,
 - an electrode arrangement,
 - an element or a plurality of elements for polarisation of the light and
 - a mesogenic modulation medium, wherein
 - the light modulation element is operated at the temperature at which the modulation medium in the unaddressed state is in an optically isotropic phase and
 - the mesogenic modulation medium comprises a chiral component, component (A), which consists of one or more chiral compounds, at least one of which has an HTP of $30 \mu\text{m}^{-1}$ or more, and
 - the mesogenic modulation medium comprises an achiral component, component (B), which consists of one or more achiral compounds,
 - the ~~mesogenic~~light modulation ~~medium~~element is operated at the temperature at which the ~~light~~mesogenic modulation ~~element~~medium has a blue phase or
 - the ~~mesogenic~~light modulation ~~medium~~element is operated at the temperature at which the ~~light~~mesogenic modulation ~~element~~medium is in the isotropic phase

and either

- the dielectric susceptibility (ϵ_{av}) of the modulation medium at a temperature of 4 degrees above the conversion temperature from the blue phase or from the cholesteric phase into the isotropic phase is 40 or more, or
- the optical anisotropy at a temperature of 4 degrees below the transition temperature from the cholesteric phase into the isotropic phase is 0.050 or more.

14. (Previously Presented) The electro-optical light modulation element, wherein

- the optical anisotropy at a temperature of 4 degrees below the transition temperature from the cholesteric phase into the isotropic phase is 0.050 or more.

15. (Previously Presented) An electro-optical display containing one or more light modulation elements according to Claim 1.

16. (Previously Presented) The electro-optical display according to Claim 15, wherein the display is addressed by means of an active matrix.

17. (Previously Presented) An electro-optical display system containing one or more electro-optical displays according to Claim 15.

18. (Previously Presented) The electro-optical display system according to Claim 17, which is a television screen, computer monitor or as both.

19. – 20. Cancelled)

21. (Previously Presented) A method for the display of video signals or of digital signals or information, comprising transmitting video signals or digital signals to a display according to Claim 15.

22. (Cancelled)

23. (Currently Amended) A mesogenic modulation medium which comprises
(a) a chiral component, component (A), which consists of one or more chiral

- compounds at least one of which has an HTP of $30\ \mu\text{m}^{-1}$ or more, and
- (b) optionally an achiral component, component (B), which consists of one or more achiral compounds,
- the ~~mesogen~~light modulation ~~medium~~element is operated at the temperature at which the ~~light~~mesogenic modulation ~~element~~medium has a blue phase or
 - the ~~mesogen~~light modulation ~~medium~~element is operated at the temperature at which the ~~light~~mesogenic modulation ~~element~~medium is in the isotropic phase, wherein
 - the relative temperature dependence (dV_{4070}^*/dT) of the characteristic voltage for ~~4070~~30% relative contrast (V_{4070}) of the modulation medium is 30%/degree or less at a temperature of 2° above the characteristic temperature (T_{chir}) in the range of $\pm 1^\circ$ around this temperature.

24. – 26. (Cancelled)

27. (Previously Presented) A medium according to Claim 23, having a characteristic temperature in the range from 0°C to 60°C .

28. (Previously Presented) A medium according to Claim 32, wherein the blue phase has a temperature range of at least 5 degrees.

29. (Previously Presented) A medium according to Claim 28, wherein the blue phase has a temperature range of at least 10 degrees.

30. (Previously Presented) The electro-optical light modulation element according to Claim 1, wherein component (A) consists of one or more chiral components at least one of which has an HTP of $50\ \mu\text{m}^{-1}$ or more.

31. (Previously Presented) The electro-optical light modulation element according to Claim 1, wherein component (A) consists of one or more chiral components at least one of which has an HTP of $90\ \mu\text{m}^{-1}$ or more.

32. (Previously Presented) A medium according to Claim 23, having a blue phase, with a characteristic temperature in the range from -20°C or below to 80°C .